<110> FREEDMAN, JONATHAN H.
      LIAO, VIVIAN H.C.

<120> STRESSOR REGULATOR GENE

<130> 1579-315

<140> 09/437,450
<141> 1999-11-10

<150> 60/109,281
<151> 1998-11-20

<160> 72

<170> PatentIn Ver. 2.1

<210> 1
<211> 165
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 1
tttttttttt ttttccaacc ccttcacata ataggcggaa aaccgattgt tgctgttact 60
tgttgttgtg tttattccct gacctatcca tattcccttc ttcccaatct ctaaagatat 120
acctgaaaac gagttttttg aatacttgat acatttgtct tcatc 165

<210> 2
<211> 154
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 2
tggattgtgc gggtggtact gccaagtctg gtcgtgatag aaaacatcag gcgatcatgc 60
ctttacgtgg taagatcctg aacgtcgaaa agcaatggaa cataagatct acgaaaatga 120
ggagatcaaa aacatgttta cagctttggt ccta 154

<210> 3
<211> 264
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 3
tggattgtgc ggagtataag caaaaatttc tggaaaagtc gggtgatatg aagtttgata 60

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agatcttcaa tcaaaagctc ggtttcttgt tgttaaaaga ttccgcagga aaatgtctcc 120
gagagtccgt gtcctcaaat taaattctac gaggcgatca aagaatacga gaaaatggag 180
acaccagatg agcgattaac aaaagcacga gaaatttatc gatcatcata tacggttgaa 240
ttccgtcgcg caatcgtcac actc                                        264


<210> 4
<211> 187
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 4
aaatttttat taaaataaaa taaacatgtt tttgttgata ttatagcgtt aaagctgaaa 60
tgacaatgat tagaaaacca gcagagaata gagatgatgt tcctttcgtt gttgtttcca 120
gtgaacactt gttgcggtgg agcccgtatt tagcgagtgg tagttttttga tgtgattggt 180
tccaatc                                                          187


<210> 5
<211> 267
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 5
tggtactcca cctacaagtt ctacaagttc tacgaggttg tcctgatcga tccattccac 60
aaggctatcc gtcgtaaccc agacacccaa tggatcacca agcctagttc acaagcaccg 120
tgagcaaaga ggactcacct ctgctggacg caagttcgtg gactcggaaa gggattgctt 180
ttctctgcta cccgcggagg atcccaacac caaagttttt ccacccgcca accgataaat 240
cttgttattt tattttgttt tgggttt                                    267


<210> 6
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 6
tttttttttt ttttcccaac cccttcacat aaaggcggaa aaccgattgt tgctgttact 60
tgttgttgtc gtttattccc tgaggtatcc atattccgct tctcccaatc tctaaagata 120
tacctgaaaa cgagttgtcg tcgaaatact tgatacatgt tgtcttcatc ctggtgtatg 180
ttgtttcgca aattcttcat actagttatg ataggatttg aatgagctgg cacgagtcaa 240
ctttgaactc gaatttcaat attttcgtga tcctgcatta agtgatgaat aa          292


<210> 7
<211> 314
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Probe

<400> 7
tctgagctag gaggtccagg aggaaacaac ggaggaggtg ctggaaatgg tggattcgac 60
gattttgatg atttggctcg ccgtttcgaa gaactgaaaa agattaagta atcatcaccc 120
gacgttccat tccttattaa ctatttgttt ctcttccacc caattttttt ttcacgtgtc 180
ttttttgta tcataaatga gacccccaaa aactagctgt ttcttagtgc atacgttaaa 240
acccctttag tcattgatta tcattgtata cctcattatc cgaaaaacct ttcgacattc 300
atcaactagg tttt   314

<210> 8
<211> 189
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 8
tctgagctag ggaccgaaat tcacaaatat ccaattgtta ctggatggtg gggatgtgga 60
cgatttaatg gggacaagcc actgaagtgt atgttatttc attcgttaaa tatgaagatg 120
gaggagagtg aatggggatt ttgcttcttt tgcaaaatgg cctccctatg tacctgaaaa 180
aaaaaaaaa   189

<210> 9
<211> 171
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 9
tctgagctag gaaaggacgg agaagatgga gagaacggag ctgctggagc cgctggacca 60
aagggatctt gcgaccactg cccaccacca cgcactcccc aggatattaa ttcacttctc 120
tctaattta gtgaatctca ttctaataaa aagccgcccc aaaaaaaaaa a   171

<210> 10
<211> 289
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 10
tttttttttt tttgagcgag cgtttattat ttgagtcgag cttgggttga gtcgtcagct 60
gaacatgaag attgacaaag aagacgatca gcagcaacag atgcgcagag tcgcattctt 120
tgcggttgct gtctcaactg cagccgtcat ttcaagcatc gtgactctcc caatgatcta 180
ctcttactct tcaatctttc caatcccatt tgatcattgg aaaccgagtt ctgtaaaact 240
gtgctcgtga tatgtggtgt cgaagttctc cacaagtcag gtgtaccct   289

<210> 11
<211> 162
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 11
ctccaccgca acaagtgttc acgtggaaac aacaacgaaa ggaacatcat ctctatctct 60
gctggttttc taatcattgt catttcagct ttaacgctat aatcaacaaa aacagtttat 120
tttattttaa taaaaattta ttcgtgcaaa aaaaaaaaa aa   162

<210> 12
<211> 140
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 12
tagggcctgg ttgtgacaat gtgcactaaa atggggcatg aatatcacca gcagagttca 60
cttacccaaa gtgtacttat taagagtcaa ctgtgaagta tatgagacat ttcagttgcc 120
tgcccaaaaa aaaaaaaaa   140

<210> 13
<211> 308
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 13
tagttaggca caggatgtac gaggaaattc tactattttc gggtctcacc acgaaatcac 60
aataacccgg attttttagt ggtccccgca cgttgaccta ctggcgcgtc aggcactccg 120
ccgcgacatt cgccgacacg cctacaatcc acgtgtcaat cgtcagattt gcggatcaat 180
aatggtgatg aaaggtggaa atacgtatat ggatcatgtt caaaggcatc aagctgaaca 240
attcgaagag ttgaatcggc gtcgacactt ttgatccaag accgtaagaa atttgaaagc 300
tattggtg   308

<210> 14
<211> 238
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 14
tttttttttt ttttggggag gaaatcacgg cttcggatgc aacagtcttc tctcaattgg 60
caactgtcta ttatccattc cgcaatcaca tttcggatgt tctcgaaaag gacttcccaa 120

```
agttattgga gtactgtgaa agagttcgtc atgaagttta cccaaaggac tttactatgt 180
gaattaaatt gtcaaactag tagtcagatc aataaaattt tccgcgcgaa aaaaaaaa   238
```

<210> 15
<211> 324
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 15
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tagttaggca caggatgtac gaggaaattc tactattttc gggtctcacc acgaaatcac 60
aataacccgg attttttagt ggtccccgca cgttgaccta cttggcgcgt caggcactcc 120
gccgcgacat tcgccgacac gcctacaatc cacgtgtcaa tcgtcagatt tgcggatcaa 180
taatggtgat gaaaggtgga aatacgtata tggatcatgt tcaaaggcat caagctgaac 240
aattcgaaga gttgaatcgg cgtcgacaac tttttgatcc aagaccgtaa gaaatttgaa 300
agctattggt gaaaaaaaaa aaaa                                         324
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<210> 16
<211> 272
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 16
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tggtactcca cgcagaaaga agaaggtcat ccacaacacc gctactaccg atgacaagaa 60
gcttcaaagc aatttgaaga aactctctgt caccaacatt ccaggaatcg aggaggtcaa 120
catgattaag acgatggaac cgttatccac ttcaacaacc caaaagtcta aacctctgtt 180
cccagccaat accttctctg tcacaggatc agccgataac aagtcagatc actgaaatgt 240
ctcccaggga atgctgaact ggtcagagtc ct                               272
```

<210> 17
<211> 218
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 17
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tttttttttt tttcgacaag cggggactaa aagcaagctt ttcatccacc gatgatacaa 60
ggcgttttta gtaccttagg atcgactgac ccacatccaa ctactgttcc acgtggaacc 120
cttctccact tcagtcttca aggatcgaac ttgaatattt gctactacca tacgatctgc 180
actgacggaa agtccagccg agcctacctc atagttaa                         218
```

<210> 18
<211> 238
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence:  Probe

<400> 18
tttttttttt ttttgccggg cggtgtgtac aaccggcagg gacgtaatca acgtgagctg 60
atgactcgcg cttactaggc attcctcgtt taagggcaat aattacaata ccctatcccg 120
gacatggaag aatttcaacg gtttaccgat acctttcaac acgggaaaac tacccggttg 180
gacaccatta ggactgacag attgaaagtc tttgtcgatt tggtggttgg ttgtgcat   238


<210> 19
<211> 253
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Probe

<400> 19
tagggcctgt tggttgatgc ttgtccggcg cagttctgtc tgcttgatac ttcgggttga 60
tggcggacta gtgattgtgc ttcttgcgga ccgtttctgg tgtgtgcttg gacctcggtt 120
ctagtatcct gatcgctcat ctatcaaccg tactgtaacc ggtacgactc agggaatccg 180
actgtctaat taaaacagag gtgacagatg gtccttgcgg acgttaactg tcactgattt 240
ctccccagtg cac                                                    253


<210> 20
<211> 277
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Probe

<400> 20
tttttttttt tttggggggg gcggtgtgta caaagggcag ggacgtaatc aacgtgagct 60
gatgactcac acttctaggc attcctcgtt taagggaata attacaatac ccatcccgga 120
catggaagaa tttcaacggt ttaccgatac cctttcggca acacgggaaa actcacccgg 180
tccggacacc attaggactg acagattgaa agctctttct cgatttggtg gttggtggtg 240
catggccgtt cttagttggt ggagtaccaa tcactag                          277


<210> 21
<211> 216
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Probe

<400> 21
tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgttgtgaga agtactgctg 60
tgaggaggcc agtgagaaaa aatgctgtcc agctggatgt aagggagact gcaagtgtgc 120
aaactgtcat tgtgcagagc agaagcagtg cgagacaaga cccatcaaca ccagggaact 180
gctgcggctc attaaaatgt ttcagagttg aatcta                           216

<210> 22
<211> 356
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 22
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caatcgatga gtatcctcgt acaattaatg catgatgcaa ttggaaatat tccgaggtag 60
gtaaaacggg gaacatcacg agatagatga atacagcgga tatcatatag gcacgcagaa 120
tatcaataaa attttcaaat tttcaaaata tcataacgat tataacacgt agcagggaat 180
tttaaagcca ctgaaataaa tatagaataa tatatacaga cacacacaat ctagatttca 240
gaacattttc agtaacgacg tttgaacttt tttgaagatt tcgccgagcc tttgatcact 300
tttgcagtca caacttccac aactttcttt tcctcctctt cctctacatc gattgc   356
```

<210> 23
<211> 199
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 23
```
taaactctat gtttatttgt tttttcaaat ttcaaattga aaattgaaac tttcaatttg 60
attagagtct ttgtggtttg actccttttt ttcattgaac atcttttacg tacgtcatac 120
tttttgtatac acatttacaa atgttgtttt gtaattatat gtaacaaatt tctatgtaca 180
cctcatctca tctctctat   199
```

<210> 24
<211> 326
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 24
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cgtctccctt ttttacttac ttgtaggtgc gtcttgtcaa ttgtacgtac ttatatttag 60
caaacctctg gtgttacctc tgcttttttg taaaatttgt tacacacttt ctttttggca 120
gtaaaagttg tttagcacac tttaacactc tgccactacc aaggtaatag tgagcccatc 180
gaggtttat aaatgtcctt gatagtttaa agtgttggag gatcgagcta ctttggtagt 240
ggaaagccgt gtttcttgtc ttgttttgtt cgatgattta cccaactatt tgatattttg 300
atttaccgga ttatataata cacccc   326
```

<210> 25
<211> 147
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 25
tggcaatata cctagaaaga gtaaatatta tgacgtggca ataatacaga agcagtccga 60
actacaactc acgaaacatt ttgaaagttt acctcttgat ttcttttgaa tgttttgtct 120
cacacaataa agaaaattct accgtac 147


<210> 26
<211> 285
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 26
cgtggcaata cacagaatat acacattgag atggttcgaa tggcaaagag aaggtggtgg 60
ctaatcattc tatatagcac aacgccaaat ataatttcga tgtggcggaa tttgtgatgg 120
tgaatggaat taacaaaatt ttctaaacgt cttcattccg agtaattttt cgttttccct 180
ccacttttcg atttatattg ttttcttaga aaaagtattt attgcatcgg gtgctcattg 240
tctttgtgta gaatataaac tcgttcactt cccaaaaaaa aaaaa 285


<210> 27
<211> 216
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 27
tagcaagtcg gagacaaatg tgaatgcagt ggagacaagt gttgtgagaa gtactgctgt 60
gaggaggcca gtgagaaaaa atgctgtcca gctggatgta agggagactg caagtgtgca 120
aactgtcatt gtgcagagca gaagcagtgc ggagacaaga cccatcaaca ccagggaact 180
gctgcggctc attaaaatgt ttcagagttg aatcta 216


<210> 28
<211> 142
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 28
gtgctggagt tgtttgtatt tcagaataaa taaaataaaa tatgatttga gtagaatatt 60
aaaataaagt ccttcacatt aaattatcaa ttgcttggcc tcgaatatct tccagctggt 120
gattgcattc gttcattcct tc 142


<210> 29
<211> 84
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:   Probe

<400> 29
tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgttgtgaga agtactgctg 60
tgaggattcc agtgagaaaa aatc                                         84


<210> 30
<211> 217
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 30
tagcaagtgc ggagacaaat gtgaatgcag tggagacaag tgttgtgaga agtactgctg 60
tgaggaggcc agtgagaaaa aatgctgtcc agctggatgt aagggagact gcaagtgtgc 120
aaactgtcat tgtgcagagc agaagcagtg cggagacaag acccatcaac accagggaac 180
tgctgcggct cattaaaatg tttcagagtt gaatcta                          217


<210> 31
<211> 292
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 31
tggtactcca cacggacaaa tacatttagt tttacaagcc gccacgcgac acgcaacgcc 60
gtaaatctac caaggtacaa caacaacatg tcaagcacag acccatatct tatttgtgcg 120
gaacgagatg gcctctactg tagtaatcga caattggact cttatccacc ggatcactta 180
acctattttg atattaatat tcctattggg atcacaggggt ttgcccgaaa atgtaattat 240
gaactgaatt gaaatgtatt ataaattagt ttttattggg aaaaaaaaaa aa          292


<210> 32
<211> 188
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Probe

<400> 32
tataggttaa gtgatccggt ggataagagt ccaattgtcg attactacag tagaggccat 60
ctgcttccgc acaaataaga tatgggtctg tgcttgacat gttgttgttg taccttgggt 120
agatttacgg cagttgcgtg tcgttggcgg cttgtaaaac taaatgtatt tttccgtgtg 180
gagtacca                                                          188


<210> 33
<211> 289
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 33
tttttttttt ttttgtacat tatggcaaat ggaggcactg tctggttccg tggggtcatg 60
gtgcattgga tcatggtata tcctatcctg gcttctaatc ccaatgcgtt tacagtcatg 120
tgggcttgaa cgggcctagc tgagcttgga caaagttcct tgacagtacg ggtcgacaag 180
cttgacagtc agaaattagg cacttgtggg ctacaggtgc tcgtaattat tttgagagtt 240
ctgggcttcc ggacttttac taggctaatc taagacaact gggctctaa         289


<210> 34
<211> 214
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 34
aaatcatggc ggcggatgca acagtcttct caattggcaa ctgtctatat cattccgcaa 60
cacatttcgg atgttctcga aaaggacttc ccaaagttat tggagtactg tgaaagagtt 120
cgtcatgaag tttcccaaag gactttacta tgtgaattaa attgtcaaac tagtagtcag 180
atcaataaaa ttttacgtgg aaaaaaaaaa aaaa                         214


<210> 35
<211> 322
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 35
taggtgaccg tagagaagcc cagatatttа aaatctaaag ggaaactgtt tgaccagaag 60
attagagccc agttgtctta gatagcctag taaaagtccg gaagcccaga actctcaaaa 120
taattacgag cacctgtagc ccacaagtgc ctaatttctg actgtcaagc ttgtcgaccc 180
gtactgtcaa ggaactttgt caagctcagc taggcccgtt caagcccaca tgactgtaaa 240
cgattcggga ttagaagcca ggataggata tccatgatcc aatgcaccat gacccacgga 300
accagatgtg ctcattacat ag                                     322


<210> 36
<211> 228
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 36
tttttttttt tttccccatt catcacacac tatcatgttt tatattcaga cctattacct 60
gtccagaaaa actgagctga aaaaatcccg gacgagcagc tccttcacat tcaaaatctt 120
ccatcatttc cccactcaat tcatttgttt tgtctttgat tttcaaattt tttgccttat 180
tattttattg ctaaattaag aaaactgtta ctttgcaaaa aaaaaaaa          228

<210> 37
<211> 255
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:    Probe

<400> 37
atcattcaag aaagctatta tcagaaaaca taaatgacat agatcaagtg taaatcacat 60
atatataaag tggataaata tatatagtta aacggataag gaaattaatt aatgaatttt 120
gaaactggca gcgaaggatg aacagggaaa ggcacatgtt aaaataaatg aatgtgtata 180
atttcgtgaa gagttagtta tgttaggtga tggcagccat gcagaatgag ccattgttcc 240
gaaaaaaaaa aaaaa 255


<210> 38
<211> 433
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:    Probe

<400> 38
tggtactaag ggccaataac tgagcttttg cacggcggca tcaatgataa agagaaacta 60
tttttgacgg ttaaaataac caaatttaca ccggcgagtc aatcaaaaat tctcatctgg 120
aacagcaaag tacatcggag aattgctgga aggaagcact gatgaaacta aattaactgc 180
tggatgcata ggaaaaacgt caagattgac gtggagttgg agagaaggac tatgtttgga 240
tggttactaa gattttgtaa ctggtgacaa taaggacatc acttttctaa ctaacttaaa 300
ttcttttta cttctttct tctgaattaa ttgtgtttta aggcgaattc tatgtttcag 360
aatttattta cgtttgcttt ttcatgttta attgtaaaag taagcaattt ttccaccgta 420
aaaaaaaaaa aaa 433


<210> 39
<211> 933
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:    Probe

<400> 39
catgcatctt tttttttttt ttttttttta ctgtctcaag tatgttggat tcatgtttga 60
ttattactgc tgcgctgttt ggagccgctg tcatttactt gaaaaatttc ttcactgttc 120
ctagcattaa accaaaacct gatattcaca aaaaagacta caaaaaggat gtagtctatc 180
tgtatcagat gaagagactc aagaactgtc cgaacttgtc ccctttctgc atgaaaatcg 240
agattctttg tagaatcttc aagattcctt acgagattat cacatgcacc tctgaacgct 300
ctcggaatgg attggtccct ttcgttgaac tcaatggaga gcacattgct gattctgatc 360
ttatcgaaat gcgcttgaga tcacatttta aaattccgtc gcttccaact gagctggaaa 420
ctcaatctgt tgctctaagc aagtttgcag atcaccattt gttcttcgta cttatacgat 480
ttaaaattgc tgtcgacgaa ttctacaaaa ccattatcga ataatcggt ctcccaacct 540
tcctgaattt ccttctcatg ccccttttga aggctataat cgggaaaaat gtctacaaca 600
aatgtcaggg agccattgga gattttgaat tgagtgagct cgacgagatt cttcacagag 660

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atttgcgaat cgtagagaac accttggcca agaaaaagtt tcttttcggg gaggaaatca 720
cggcggcgga tgcaacagtc ttctctcaat tggcaactgt ctattatcca ttccgcaatc 780
acatttcgga tgttctcgaa aaggacttcc caaagttatt ggagtactgt gaaagagttc 840
gtcatgaagt ttacccaaag gactttacta tgtgaattaa attgtcaaac tagtagtcag 900
atcaataaaa ttctacgtgg caaaaaaaaa aaa                            933
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<210> 40
<211> 238
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 40
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tgctgcggct cattaaaatg tttcagagtt gaatcta                            217


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<211> 216
<212> DNA
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<220>
<223> Description of Artificial Sequence:  Probe

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aaactgtcat tgtgcagagc agaagcagtg cgagacaaga cccatcaaca ccagggaact 180
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<210> 49
<211> 240
<212> DNA
<213> Artificial Sequence

<220>
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<211> 217
<212> DNA
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<220>
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<220>
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484138

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<220>
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<220>
<223> Description of Artificial Sequence: Probe

<400> 53
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<210> 54
<211> 10
<212> DNA
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<220>
<223> Description of Artificial Sequence: Probe

<400> 54
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<210> 55
<211> 10
<212> DNA
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<220>
<223> Description of Artificial Sequence: Probe

<400> 55

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<400> 56
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<220>
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<400> 57
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<223> Description of Artificial Sequence: Probe

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<210> 63
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<220>
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<220>
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<213> Artificial Sequence

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<400> 65
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<220>
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<400> 66
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<210> 67
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<400> 67
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<210> 68
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<220>
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<400> 68
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<210> 69
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<400> 69
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484138

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<220>
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<210> 71
<211> 10
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tcggtcatag                                                    10


<210> 72
<211> 10
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